

1. (Amended) A water-dispersible liquid vitamin composition comprising:

a) from 10% to 60% by weight of a vitamin component selected from the group consisting

of:

(i) one or more precursors of Vitamin A;

(ii) one or more precursors of Vitamin E;

(iii) a mixture of one or more precursors of Vitamin A and one or more precursors

of Vitamin E;

(iv) a mixture of one or more precursors of Vitamin A and Vitamin D3;

(v) a mixture of one or more precursors of Vitamin E and Vitamin D3; and

(vi) a mixture of one or more precursors of Vitamin A, one or more precursors of

Vitamin E, and Vitamin D3;

b) from 2% to 15% by weight of a C4 to C6 alkyl lactate;

c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;

d) from 1% to 15% by weight of water; and

e) from 2% to 10% of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

5. (Amended) The composition of claim 1, wherein the composition is free of a flammable

alcohol.

13. (Amended) The composition of claim 1, wherein said composition disperses into water and forms a finely divided emulsion within 2 minutes when added at a ratio of composition to water of from 1 g/kg to 50 g/kg and stirred manually at a temperature of from 15°C to 25°C.

20. (Amended) A water-dispersible liquid vitamin composition comprising:

a) from 10% to 60% by weight of a vitamin component selected from the group consisting of:

(i) one or more precursors of Vitamin A;

(ii) one or more precursors of Vitamin E;

(iii) a mixture of one or more precursors of Vitamin A and one or more precursors of Vitamin E;

(iv) a mixture of one or more precursors of Vitamin A and Vitamin D3;

(v) a mixture of one or more precursors of Vitamin E and Vitamin D3; and

(vi) a mixture of one or more precursors of Vitamin A, one or more precursors of Vitamin E, and Vitamin D3;

b) from 3% to 15% by weight of a C1 to C3 alkyl lactate;

c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;

d) from 3% to 15% by weight of water; and

e) from 2% to 10% of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

23. (Amended) The composition of claim 20, wherein the amount of the C1-C3 alkyl lactate is from 3% to 12%.

24. (Amended) The composition of claim 20, wherein the composition is free of a mono-hydroxy alcohol.

31. (Amended) The composition of claim 20, wherein the viscosity of the composition is from 1000 cP to 10000 cP at 0°C.

33. (Amended) The composition of claim 20, wherein said composition disperses into water and forms a finely dispersed emulsion within 2 minutes when added at a ratio of composition to water of from 1 g/kg to 50 g/kg and stirred manually at a temperature of from 15°C to 25°C.

42. (Amended) A water-dispersible liquid vitamin composition comprising:

- a) from 1% to 6% by weight of Vitamin D3;
- b) from 2% to 15% by weight of a C4 to C6 alkyl lactate;
- c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;
- d) from 1% to 15% by weight of water; and
- e) from 5% to 30% by weight of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

43. (Amended) A water-dispersible liquid vitamin composition comprising:

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- a) from 1% to 6% by weight of Vitamin D3;
 - b) from 3% to 15% by weight of a C1 to C3 alkyl lactate;
 - c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;
 - d) from 1% to 15% by weight of water; and
 - e) from 5% to 30% by weight of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

⤵ Please add new claims 44 - 57 as follows ⤵

44. (New) A water-dispersible liquid vitamin composition comprising:

a) from 10% to 60% by weight of a vitamin component selected from the group consisting of:

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- (i) a precursor of Vitamin A;
 - (ii) a precursor of Vitamin E;
 - (iii) a mixture of a precursor of Vitamin A and a precursor of Vitamin E;
 - (iv) a mixture of a precursor of Vitamin A and Vitamin D3;
 - (v) a mixture of a precursor of Vitamin E and Vitamin D3; and
 - (vi) a mixture of a precursor of Vitamin A, a precursor of Vitamin E, and Vitamin

D3;

- b) from 2% to 15% by weight of a C4 to C6 alkyl lactate;
- c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;

d) from 1% to 15% by weight of water; and

e) from 2% to 10% of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

45. (New) A water-dispersible liquid vitamin composition comprising:

a) from 10% to 60% by weight of a vitamin component selected from the group consisting

of:

(i) a precursor of Vitamin A;

(ii) a precursor of Vitamin E;

(iii) a mixture of a precursor of Vitamin A and a precursor of Vitamin E;

(iv) a mixture of a precursor of Vitamin A and Vitamin D3;

(v) a mixture of a precursor of Vitamin E and Vitamin D3; and

(vi) a mixture of a precursor of Vitamin A, a precursor of Vitamin E, and Vitamin

D3;

b) from 3% to 15% by weight of a C1 to C3 alkyl lactate;


c) from 20% to 50% by weight of one or more veterinarily acceptable emulsifiers;

d) from 3% to 15% by weight of water; and

e) from 2% to 10% of an oil;

wherein the flashpoint of the composition is about 200°F or greater.

46. (New) The composition of claim 1, wherein the one or more precursors of Vitamin A is retinyl propionate.

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47. (New) The composition of claim 44, wherein the precursor of Vitamin A is retinyl propionate.
48. (New) The composition of claim 45, wherein the precursor of Vitamin A is retinyl propionate.
49. (New) The composition of claim 1, wherein the one or more precursors of Vitamin E is (dl) alpha tocopheryl acetate.
50. (New) The composition of claim 44, wherein the precursor of Vitamin E is (dl) alpha tocopheryl acetate.
51. (New) The composition of claim 45, wherein the precursor of Vitamin E is (dl) alpha tocopheryl acetate.
52. (New) The composition of claim 1, wherein the vitamin component is a mixture of retinyl propionate and Vitamin D3.
53. (New) The composition of claim 44, wherein the vitamin component is a mixture of retinyl propionate and Vitamin D3.
54. (New) The composition of claim 45, wherein the vitamin component is a mixture of retinyl propionate and Vitamin D3.
55. (New) The composition of claim 1, wherein the vitamin component is a mixture of retinyl propionate, Vitamin D3 and (dl) alpha tocopheryl acetate.
56. (New) The composition of claim 44, wherein the vitamin component is a mixture of retinyl propionate, Vitamin D3 and (dl) alpha tocopheryl acetate.